

Welcome to the Image-Guided Interventions Workshop

John Haller, PhD
Acting Division Director
Division of Applied Science and Technology

National Institute of Biomedical Imaging and
Bioengineering

NIH, DHHS



NIH / NASA / NSF

Image-Guided Interventions Workshop

Sponsors

- National Institute of Biomedical Imaging and Bioengineering / National Institutes of Health (NIBIB/NIH)
- National Aeronautics and Space Administration (NASA)
- National Science Foundation (NSF)

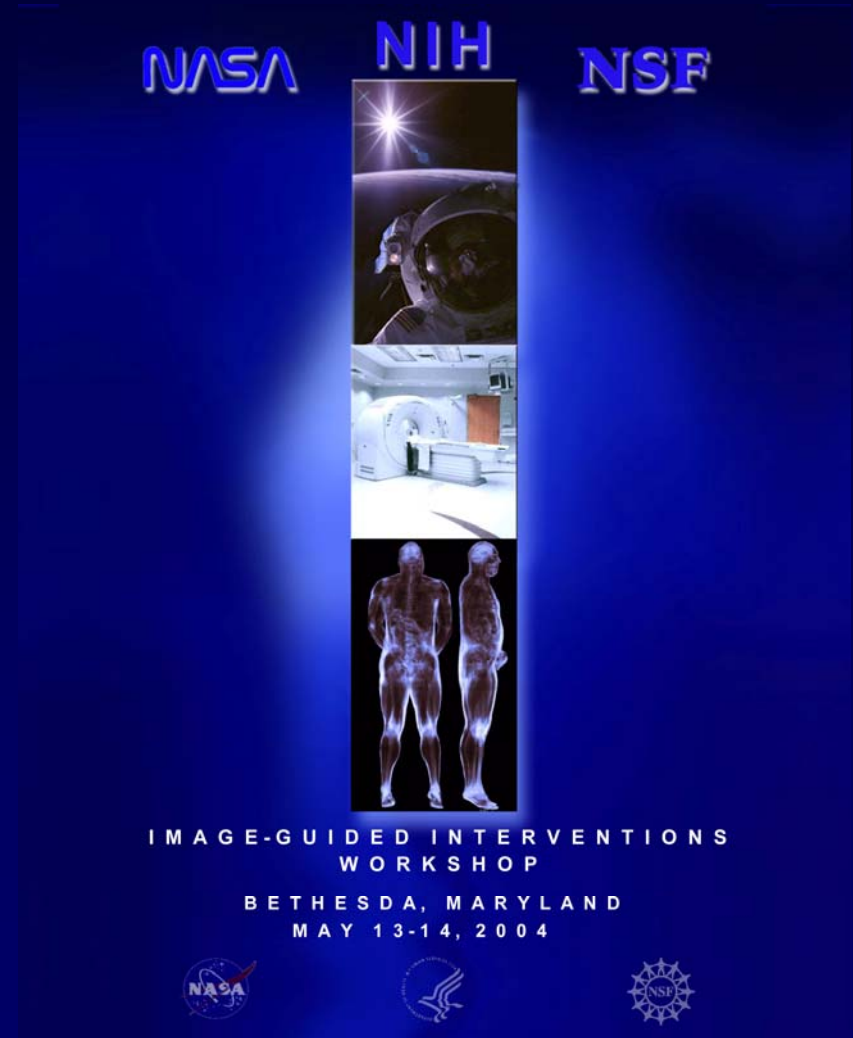


NIH / NASA / NSF

Image-Guided Interventions Workshop

Workshop Organizers

- John Haller (NIBIB/NIH)
- Bruce Hamilton (NSF)
- John Emond (NASA)
- Theresa Smith (NIBIB)
- Larry Clarke (NCI)
- Gary Dorfman (NCI)



Federal Agency Representatives

Radhakisan Baheti

National Science Foundation

Leon Esterowitz

National Science Foundation

Richard Boyle

NASA Ames Research Center

Keyvan Farahani

National Cancer Institute

Denise Caldwell

National Science Foundation

James French

National Science Foundation

Larry Clarke

National Cancer Institute, NIH

Colleen Guay-Broder

National Institute of Biomedical Imaging and Bioengineering

Gil Devey

National Science Foundation

John W. Haller

National Institute of Biomedical Imaging and Bioengineering

James A. Deye

National Cancer Institute, NIH

Bruce Hamilton

National Science Foundation

Gary Dorfman

National Cancer Institute

Mary Beth Kester

National Institute of Biomedical Imaging and Bioengineering

John Emond

NASA

Peter Kirchner

National Institute of Biomedical Imaging and Bioengineering

Federal Agency Representatives

Peter M. Lyster

National Institute of Biomedical Imaging and Bioengineering

Robert W. Mah

NASA Ames Research Center Smart Systems Research
Lab

George May

Stennis Space Center ITD ProVision Technology

Grace Peng

National Institute of Biomedical Imaging & Bioengineering

Roderic Pettigrew

National Institute of Biomedical Imaging and Bioengineering

Sohi Rastegar

National Science Foundation

Victor Schneider

NASA

Belinda Seto

National Institute of Biomedical Imaging and Bioengineering

Theresa Smith

National Institute of Biomedical Imaging and Bioengineering

Mollie Sourwine

National Institute of Biomedical Imaging and Bioengineering

Richard Swaja

National Institute of Biomedical Imaging and Bioengineering

Sandra T. Talley

National Institute of Biomedical Imaging and Bioengineering

Vasu Varadan

National Science Foundation

Stacy Wallick

Fei Wang

National Institute of Biomedical Imaging and Bioengineering

Elijah Weisberg

National Institute of Biomedical Imaging and Bioengineering

Yantain Zhang

National Institute of Biomedical Imaging and Bioengineering

What is the NIBIB?

One of the 27 Institutes and Centers of the National Institutes of Health (NIH)

Part of a funding agency (NIH) that funds research and technology development with applications to human health

The NIBIB Mission:

Improve human health by leading the development and accelerating the application of biomedical technologies.



How is NIBIB different?

Focus on technologies with broad applications to multiple diseases

Emphasis on multi-disciplinary and collaborative research

Technology-driven research vs. clinical hypothesis-driven research

Promotes inter-agency and inter-institute activities





New ideas are sought regarding advances needed in imaging science and engineering as they relate to minimally invasive treatments, biopsies, and surgical procedures that improve human health.

We have seen the future, and it is now.

A cartoon illustration of a young boy with a large, bushy head of hair, wearing a red tunic and a brown hat, standing in a forest. He is looking up at a large, white, cloud-like thought bubble that contains the text "We have seen the future, and it is now." The background shows a dense forest with large trees and a path. The boy's name "POGO" is visible on a sign in the background.

NASA

NIH

NSF



IMAGE-GUIDED INTERVENTIONS
WORKSHOP

BETHESDA, MARYLAND
MAY 13-14, 2004





IGI WORKSHOP AGENDA – DAY 1



- **BREAKOUT SESSION 1: GRANTEE PRESENTATIONS**
- **10 Minute presentations by each**
 - ✓ RED, Breakout Group (Washington Room)
 - ✓ GREEN Breakout Group (Georgia Room)
 - ✓ BLUE Breakout Group (Connecticut Room)
- **BREAKOUT SESSION 2: RED, GREEN, BLUE DISCUSSION GROUPS**
 - ✓ Same participants and locations as Session 1 above
 - ✓ Discuss three questions and provide *new ideas* and recommendations for Federal programs
- How to facilitate collaborations among clinicians, engineers and scientists like ourselves?
- What are the barriers for collaboration?
- What technological advances and requirements can we implement that will significantly advance image-guided interventions in the next 5-10 years?
- 5:30 PM **Adjourn**



IGI WORKSHOP AGENDA – DAY 2



Note Change of Agenda

- **8:00 a. m. -Finalize slides** summarizing Session 2 Discussion
 - ✓ Same **RED**, **GREEN**, **BLUE** participants and locations
- **9:00 a.m. Dr. Roderic Pettigrew, Director NIBIB**
- **9:20 a.m. Presentations** to Entire Group by Breakout Session Facilitators
-
- 10:15-10:30a.m. Break
- 10:30-10:50 a.m. **NIH/NASA/NSF Presentations** and Question/Answer Session
- 10:50-11:10 a.m. Panel Questions
- 11:30 **Adjournment**
- 11:30- 12:30 **Individual meetings with NIH, NSF, NASA**
 - ✓ Individuals and/or small groups meet individually with agency representatives